**Seshu Reddy**



**Sr. Cloud Devops Engineer**

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**Professional Summary**

With over **8 years** in IT, I've excelled across roles ranging from **Linux Administrator** to **SRE** and **DevOps Engineer**, ultimately advancing to the esteemed position of **Senior Cloud DevOps Engineer**. My core proficiency lies in formulating effective **IT strategies** and **orchestrating** the **automation** of mission-critical deployments on **Azure**, **AWS** using **CI/CD** pipelines and robust **configuration** **management**.

* Expertise in implementing **DevOps strategy** in a various distribution of LINUX and Windows using tools suites like **GIT, NPM, Maven, Jenkins, GitLab, Ansible, Chef, Terraform, Docker, Kubernetes AppDynamics, NewRelic** and **Splunk** in cloud environment like **AWS** and **Azure**.
* Expertise in **developing strategies, roadmaps, architecting cloud solutions or migrating enterprise application**s to cloud.
* Highly skilled in formulating and implementing **migration** **strategies** to seamlessly transition **on-premises** applications to **cloud** environments such as **AWS** and **Azure**. Proficiently employ tools like **Python** scripting, **Terraform**, and **Jenkins** to automate and execute these migrations effectively.
* Possesses comprehensive expertise in **SDLC** methodologies, including various **Agile** methodologies such as **Scrum** and **Kanban**. Capable of delivering well-documented applications with quality standards and delivery date.
* In-depth knowledge of cloud-based services such as **IAAS, PAAS,** and **SAAS**.
* Experienced in architecting and managing cloud infrastructure on **AWS**, leveraging services such as **EC2, S3, VPC, RDS, Lambda, CloudFormation, SNS, SQS and IAM**. Proficient in designing robust and secure solutions, automating deployments, and optimizing resource utilization to meet the demands of dynamic cloud environments.
* Proficient in designing, deploying, and optimizing cloud solutions on **Azure**, utilizing services such as **Virtual Machines, Azure Storage, Azure App Service, Azure DevOps,** and **Azure Active Directory**. Adept at building scalable and resilient architectures, automating deployment pipelines, and ensuring seamless integration within the Azure ecosystem.
* Experienced in utilizing Infrastructure as Code (IaC) methodologies, with proficiency in deploying and managing cloud resources using leading tools such as **Terraform, AWS CloudFormation** and **Azure Resource Manager**.
* Experienced in large environments using **configuration** **management** tools **Chef, Ansible** and **Puppet.**
* Expertise in utilizing **Python** to develop and implement **Lambda and Azure functions** for **automation** and **alarm management** through integration with **Terraform**.
* Possess extensive experience across a comprehensive spectrum of **database** technologies, including **Oracle, MySQL, MongoDB, DynamoDB, PostgreSQL, RDS, Azure SQL Database**, and **Azure Cosmos DB**. Proficient in effectively managing and optimizing databases for diverse applications and requirements.
* Proficiently skilled in utilizing a versatile array of **build and deploy** tools across various application types, encompassing **Java, .NET, Node.js, Python, Ruby, PHP, containerized, serverless, mobile,** and **AI/ML applications.**
* Proficiently experienced in executing a variety of deployment strategies, encompassing **Blue-Green, Canary, Rolling**, and **Feature Flag deployments**. Skillfully leveraging these strategies across diverse applications and environments to ensure seamless software releases and optimize user experience.
* Proficient in seamlessly **integrating** a diverse range of DevOps tools, fostering streamlined collaboration and automation across the development lifecycle for enhanced efficiency and rapid application delivery.
* Highly skilled in embracing the principles of **DevOps** and **GitOps**, adeptly utilizing a diverse array of leading **CI/CD** and **GitOps** tools including **Jenkins, GitLab CI/CD, Azure DevOps, GitHub Actions, AWS CodePipeline,** and **ArgoCD.** Proficiency extends to orchestrating seamless software delivery, implementing resilient CI/CD and GitOps pipelines, and spearheading **agile** cloud infrastructure design and deployment.
* Accomplished **CI/CD architect** and specialist experienced in driving end-to-end project success across diverse environments, including intricate on-premises setups and cloud deployments.
* Proficient in designing, constructing, and maintaining robust **CI/CD** systems, I excel in orchestrating seamless software delivery. As a **collaborative leader**, I ensure efficient support and streamlined code repository management for continuous improvement.
* Proficient in **Docker** components, including Docker Engine, Machine, Image creation, Compose, and Docker Hub. Leveraged Docker for middleware installations and domain configuration, demonstrating hands-on skills in containerization for streamlined application deployment.
* Demonstrated proficiency in end-to-end administration **of Red Hat OpenShift Container Platform**, encompassing tasks from initial setup to ongoing management, ensuring seamless orchestration, scalability, and reliable deployment of containerized applications.
* Demonstrated expertise in end-to-end **Kubernetes** administration, orchestrating containerized applications from deployment to scaling. Ensured seamless infrastructure management, efficient resource utilization, and high-performance application delivery, reflecting a proven ability to optimize cloud-native environments.
* Experience in **DevSecOps strategy** for security auditing, continuous monitoring of the entire infrastructure and applied Web Application Firewall (WAF) rules for blocking the attacks through SQL injection and patterns.
* Proficient in using tools like SonarQube, Veracode, and OWASP ZAP to perform comprehensive security scanning and code analysis.
* Competent in managing sensitive information with tools like **HashiCorp Vault, AWS Secrets Manager, and Azure Key Vault** to enhance data protection.
* Proficient in applying various application security testing approaches including **Static (SAST), Dynamic (DAST), IAST, and RASP** to ensure robust application security.
* Experienced in implementing container security measures using solutions like **Aqua Security, Twistlock, and Sysdig Secure** to safeguard containerized applications.
* Familiar with identity and access management (IAM) platforms like **Okta, Auth0, Azure Active Directory, and AWS IAM** to manage user identities and permissions securely.
* Proficient in leveraging monitoring tools such as **Prometheus, Grafana, Splunk, and PagerDuty** for proactive threat detection and effective incident response.
* Well-versed in utilizing security orchestration, automation, and response (SOAR) platforms like **Demisto and Phantom** to streamline incident management and automate security workflows.
* Skilled in designing and seamlessly integrating IT applications and infrastructure **monitoring** tools such as **Splunk, CloudWatch, ELK, AppDynamics, AppInsights, Datadog, Sensu, Prometheus, Grafana, and Nagios**.
* Proficient in **scripting** **languages** including **Python, Bash, and shell**, effectively automating tasks to improve efficiency, streamline system management, and optimize processes.
* Expertise in **administering** and **automating** operations across multiple platforms (UNIX, Linux, Centos, Ubuntu, Windows).
* Proficient **Linux System Administrator** with a wealth of experience in configuring, securing, and optimizing Linux environments. Demonstrated success in streamlining operations, enhancing system performance, and effectively resolving complex issues, contributing to a reliable and efficient IT infrastructure.
* Experience in implemented Spark processing, Kafka messaging, JBoss BRMS and Cassandra DB on the OpenShift container platform.
* Knowledge of web technologies like C#, **Java, JavaScript, HTML, CSS, JSON, XML**.
* Ability to grasp latest technologies and to properly apply new tools to build applications.
* Provided **24/7 support** to coordinate with the teams and customers for delivery purposes.

**Professional Experience**

**Sr. Cloud/Devops Engineer April 2022 - Present**

**Capital One - McLean, Virginia**

* Demonstrated expertise in utilizing a wide range of AWS Services, including EKS, ElastiCache, Lambda, KMS, VPC, subnets, route tables, security groups, flow logs, EC2, AutoScaling, Load Balancers, RDS, DynamoDB, PostgreSQL, SNS, SQS, CloudTrail, IAM, S3, CloudWatch, and CloudFront.
* Implemented monitoring and alerting systems using **CloudWatch**, including setting up trigger points and alarms based on thresholds and monitoring logs via metric filters and **lambda functions.**
* Developed API for using **AWS Lambda** to manage the servers and run the code in the AWS and Gitflow methodology.
* Wrote **Lambda functions** in **python** for AWS's **Lambda**, **Kinesis** and **Elastic Search** which invokes **python** and **Bash scripts.**
* Developed and implemented automation workflows in AWS to gain visibility into inventory, tagging resources, and monitoring resource usage.
* Leveraged **CloudWatch and CloudTrail** to gather insights and perform analysis on AWS resources, identifying areas for optimization and cost savings.
* Leveraged cloud provider's **cost optimization** tools and services to monitor usage patterns, identify cost outliers, and implement appropriate cost-saving measures.
* Engineered **Python** **scripts** that effectively automated diverse tasks, driving a substantial 40% increase in operational efficiency by minimizing manual intervention.
* Configured AWS **Lambda** **functions** to handle various tasks, resulting in a remarkable 25% reduction in manual involvement for routine processes.
* Developed and maintained **Django** web applications and RESTful APIs, facilitating seamless communication between front-end and back-end systems for real-world projects.
* Successfully integrated **REST** and **SOAP** **APIs** into various applications, enabling efficient data exchange and enhancing overall system functionality.
* Conducted thorough analysis of billing reports and usage trends, providing actionable insights and recommendations to management for further **cost reduction**.
* Actively participated in resource decommissioning initiatives, identifying, and deleting unwanted or obsolete resources to eliminate **unnecessary costs**.
* Implemented lifecycle policies for storage resources, enabling automatic deletion of outdated or infrequently accessed data, leading to reduced storage costs.
* Developed and delivered training sessions to educate teams on the importance of resource **tagging** and cost optimization, promoting a culture of cost consciousness within the organization.
* Conducted maintenance tasks, debugging issues, and troubleshooting challenges in the AWS environment.
* Implemented robust **CI/CD** pipelines using **Jenkins**, effectively automating the complete build, test, and deployment processes. This initiative resulted in a notable 30% reduction in deployment time.
* Converted existing AWS infrastructure to serverless architecture (**AWS Lambda, Kinesis)** deployed via **Terraform**.
* Worked closely with the **Splunk** monitoring team to set up various logging metrics including CloudWatch, CloudTrail, Config VPC Flow Logs, Kinesis Streams, Kinesis Firehose, all logging to S3 destinations using Terraform and Lambda scripts.
* Orchestrated the integration of **Terraform** and the **CI/CD** pipeline to achieve end-to-end infrastructure automation and application deployment.
* Developed custom deployment scripts and configurations to seamlessly provision and configure cloud resources using **Terraform** during the **CI/CD** process.
* Led the development and execution of automated testing procedures within **Jenkins** pipelines, enhancing code quality and reducing post-deployment issues by 25%.
* Contributed to the enhancement of version control practices by implementing branching and merging strategies in **GitLab**, resulting in a more streamlined and error-free code collaboration process.
* Played a key role in the migration of legacy infrastructure to modern cloud environments using **Terraform**, resulting in improved scalability and cost efficiency while minimizing deployment complexities.
* Implemented **blue-green strategies**, allowing for zero-downtime releases and efficient rollbacks in case of issues, resulting in improved availability and reduced downtime.
* Written Templates for **AWS infrastructure as a code** using **Terraform** to build staging and production environments and defined **Terraform** modules such as **Compute, Network, Operations, and Users** to reuse in different environments.
* Developed and implemented **cloud migration strategies** to move on-premises applications to AWS cloud infrastructure, resulting in cost savings and increased scalability.
* Extensive experience of working with release and deployment of large scale and Enterprise applications and used **AWS Lambda** as Microservices and API gateways to achieve scalability.
* Provided expertise in **Enterprise Architecture and Platform Architecture**, guiding teams on best practices, and ensuring solutions aligned with business goals and objectives.
* Collaborated closely with development teams to establish optimized **Git workflows** within **Bitbucket**. This effort notably elevated code collaboration and version control practices.
* Configured secure access controls using AWS **Identity and Access Management** (**IAM**) policies and roles, ensuring compliance with industry regulations and company policies while maintaining data integrity and confidentiality.
* Proficient in managing the end-to-end **Build/Release/Deployment** process for multiple projects on AWS.
* Utilized scripting, including Python, to tailor and optimize **Pulsar** configurations. Developed scripts for automated setup and monitoring, resulting in improved operational efficiency.
* Effectively integrated **Apache Pulsar** within the DevOps framework, enhancing microservices communication. Utilized log analysis and monitoring tools to maintain uninterrupted data flow and responsiveness.
* Leveraged scripting to streamline the updating of **WAF** rules, reinforcing security responsiveness. Designed custom scripts to enable prompt adjustments in response to emerging threats.
* **AWS Cloud Administration** end to end account create/configure, automation Well versed in **lambda, Cloud formation** setup to create AWS resources.
* Expertise in using cloud migration tools and services such as **AWS Migration Hub**, **AWS Database Migration Service,** and **AWS Server Migration Service**.
* Developed a seamless orchestration system for containerized applications on **ECS Fargate,** strategically enhancing resource efficiency and scaling potential.
* Implemented meticulous **blue-green deployment strategies** on **ECS Fargate,** ensuring a consistently high level of service availability while minimizing any potential downtime during releases.
* Executed the deployment of **Helm** **charts** to **Kubernetes** clusters, significantly streamlining the application deployment journey and achieving a more efficient update mechanism.
* Managed and configured critical AWS messaging services, including **SQS** and **SNS**, resulting in a dependable communication framework among microservices.
* Proficient in deploying and configuring **Kubernetes**-based **EKS clusters** to facilitate seamless management of **containerized applications and microservices,** including expertise in implementing scalable and fault-tolerant architectures, monitoring and logging solutions, and network security policies.
* **Collaborated with development and infrastructure teams** to design and implement **EKS clusters** for containerized applications and microservices, ensuring high availability and scalability.
* Experience using **EKS** to deploy and manage **Kubernetes** clusters and working with tools like **kubectl and Helm**.
* Expertise in using **Snowflake** for data warehousing and analytics, including designing schemas, loading data, and creating reports and dashboards.
* Worked in tandem with the application development team to design and implement event-driven architecture using **SNS** and **SQS**, enabling efficient message queuing and processing.
* Actively participated in **agile development sprints**, c**ontributing to sprint planning, reviews, and retrospectives**, and **fostering a culture of continuous improvement**.
* Created and maintained detailed **technical documentation**, including **architectural diagrams** and standard operating procedures **(SOPs)**
* Utilized **Ansible** **Vault** for secure management of sensitive data and actively created **Ansible** **Playbooks** to automate complex tasks, contributing to improved deployment processes.
* Wrote several **Ansible playbooks** for the automation that was defined through tasks using **YAML** format and run **Ansible** Scripts to provision Dev servers.
* Implemented comprehensive monitoring, metrics, and logging systems, utilizing tools such as **Nagios, New Relic, and ELK stack.**
* Utilized monitoring data to proactively identify and resolve issues, resulting in a 30% reduction in downtime.
* Used Jenkins pipelines to drive all micro services builds out to the **Docker registry** and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes**.
* Demonstrated hands-on experience in managing the complete lifecycle of **Elastic Kubernetes Service (EKS),** actively participating in patching, upgrading processes, and ensuring optimal performance.
* Worked extensively with tools such as **Terraform** and **AWS CloudFormation** to automate infrastructure provisioning. Applied this knowledge to effectively contribute to Disaster Recovery (DR) testing procedures, ensuring robustness and recoverability.
* Automated the front-ends platform into highly scalable, consistent, repeatable infrastructure using high degree of

automation using **Puppet, Jenkins,** and **Cloud Formation**.

* Installed, Configured, Managed Monitoring Tools such as **Splunk**, **Nagios** for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Experience in using **Splunk** for log analysis, with a focus on improving server performance through **monitoring** of **pods**, **CPU**, and **memory** usage, providing valuable insights, and optimizing system operations.
* Automation and deployment templates for relational and non-relational databases including **MySQL** and **Cassandra** used in **AWS RDS**.

**Sr. Devops Engineer September 2021 – March 2022**

**SAP - Newtown Square, PA**

* Designed, configured, and deployed Microsoft Azure for a variety of applications that make use of the Azure stack Including Computer, Web & Mobile, Blobs, ADF, Resource Groups, Azure SQL DW, Cloud Services, and ARM focusing on high-availability, Redundancy, fault tolerance, and auto-scaling.
* Configured Azure Multi-Factor Authentication (**MFA**) as a part of **Azure AD Premium** to securely authenticate users and worked on creating custom Azure templates for quick deployments and advanced **PowerShell** scripting. Deployed **Azure SQL DB** with GEO Replication, **Azure SQL DB** Sync to standby database in another region & Fail over configuration.
* Worked on utilizing the full range of **Azure DevOps** services for software development and deployment, including **Azure Boards, Repos, Pipelines, Test Plans, Artifacts, Monitor,** and services such as **Azure Compute, Storage, Networking,** and **Database.**
* **Migrate** major applications to Azure Serverless infrastructures like **Azure App Services, Azure SQL,** and **Azure Logic Apps** to improve performance and reliability.
* Worked in container-based technologies like **Docker, Kubernetes and OpenShift**. Point team player on **OpenShift** for creating new Projects, Services for **load balancing** and adding them to **Routes** to be accessible from outside, troubleshooting pods through ssh and logs, modification of Build configs, templates, Image streams, etc.
* Worked on cloud automation technologies such as **ARM** and **Terraform**, with a focus on using **Terraform** for building, changing, and versioning infrastructure, managing existing and cloud infrastructure, and integrating custom in-house solutions across platforms.
* Worked on automating **Datadog** **Dashboards** with the stack through **Terraform** scripts and provisioning servers using infrastructure as code with **Terraform**.
* Created **Ansible** manifest files to install **tomcat** instances and manage configuration files for multiple applications.
* Automated the identification of application and database servers using **Ansible** scripts.
* Experience using **Groovy** for scripting and automation tasks in **DevOps processes**, including creating and managing pipelines in **Jenkins** and writing scripts for configuration management tools such as **Ansible**.
* Used **Jenkins** pipelines to drive all micro services builds out to the **Docker registry** and then deployed to b, Created Pods and managed using **Kubernetes**.
* Working as **Kubernetes Administrator**, involved in configuration for **web apps, Azure App services, Azure Application insights, Azure Application gateway, Azure DNS, Azure traffic manager, App services**.
* worked with container-based deployments using **Docker, Kubernetes, Docker Swarm, AWS EKS, Azure**

and **Mesos.**

* Configured and maintained **Jenkins** to implement the CI process and integrated the tool with **Maven** to schedule the builds. Took the sole responsibility to maintain the CI Jenkins server.
* Used **UCD** to facilitate **CI/CD** methodologies throughout the rollout of the new applications.
* Deploying **Kubernetes** (K8s) cluster with Azure Container Service (**ACS**) from Azure CLI and Utilized **Kubernetes** and **Docker** for the runtime environment of the **Cl/CD** system to build, test and **UCD Deploy.**
* Integrated **Jenkins** **CI/CD** with **GIT** version control and implemented continuous build based on check- in for applications and created GitHub Webhooks to setup triggers for commit, push, merge and pull request events to drive all builds to **Docker** registry and then deployed to **Kubernetes**, created pods using **Kubernetes**.
* Designed, Installed, and Implemented **Ansible** configuration management system.
* Expertise in setting up **Kubernetes** (k8s) clusters for running microservices and pushed microservices into production with **Kubernetes** backed Infrastructure. Development of automation of **Kubernetes** clusters via playbooks in **Ansible**.
* Installed and Implemented **Ansible** configuration management system. Used **Ansible** to manage Web applications,

Environments configuration Files, Users, Mount points, and Packages also Worked with automation/configuration.

management using **Ansible** and created playbooks in **YAML** to automate the development processes.

**Devops Engineer October 2019 – August 2021**

**Spire Health - San Francisco, California**

* Created **Python** Scripts to Automate AWS services which include **web servers, ELB, Cloud front Distribution, database, EC2and database security groups, S3 bucket** and application configuration, this Script creates stacks, single servers or joins web servers to stacks.
* Architected the AWS infrastructure to build the cost efficient and fault tolerant system.
* **Created Lambda functions** to test the data consistency in S3 and involved in data transfer from Datacenters to cloud using AWS Import/Export Snowball service.
* Design of Cloud architectures for customers looking to migrate or develop new PAAS, IAAS, or hybrid solutions utilizing Amazon Web Services (AWS). Used **Pandas** library for statistical Analysis. Worked on **Python Open stack** API's.
* Used Jenkins Pipeline for deployment and handled in **Unix** server and **Git Lab** version control used for source code repository. Wrote **Python** scripts to manage the AWS resource from API calls using **BOTO SDK**. Worked with **AWS CLI.**
* Managed and optimized **MySQL** databases, including performance tuning, query optimization, and index management, resulting in improved response times and reduced database load.
* Implemented backup and disaster recovery strategies for **MySQL** databases, ensuring data integrity and minimizing downtime in case of failures.
* Worked on schema design and database migrations, collaborating with development teams to ensure efficient data storage and retrieval.
* Configured and maintained **Redis** instances for caching, session management, and real-time data processing, improving application performance and scalability.
* Utilized **Redis** data structures and features, such as lists, sets, and sorted sets, to implement efficient and scalable solutions for specific use cases.
* Integrated **Redis** with application codebases, utilizing client libraries and implementing caching **strategies** to reduce database load and enhance overall system performance.
* Managing and Navigating through several repositories in **GitHub and Bitbucket**, assigning unique identifier tags such as asset ID, Production ID, Configuration ID.
* Working on **Jfrog Artifactory** for consolidating all repositories under a central binary repository manger. Storing artifacts of successful builds and deploying builds to the QA server/ Production server.
* Implemented microservices using **Kubernetes** and **Docker** to achieve continuous delivery.
* Worked on creating AMIs using **Ansible Playbooks** for provisioning instances using **Terraform**. Worked on Ansible tower to develop and automate server configuration for deployments into multiple server environments.
* Hands on experience working with **Jenkins** pipelines, Created and managed multiple projects based on folder view with their respective contents and dependencies inside the folder.
* Created active directory groups for access parameters for several teams in the project.
* Expertise in creating different types of pipelines in Jenkins such as free style projects, pipelines and Multibranch Pipelines using shared libraries. Utilized both shared libraries and Script IDs.
* Worked on **Groovy** and **Python Scripting** to configure shared libraries to reuse multiple micro functions by calling shared library declaration in the Jenkins file and parsing arguments for the respective micro functions.
* Worked on containerization of application using **docker file** by either importing image or creating a container with custom configuration.
* Worked on **Docker containers** for containerizing applications and builds to perform various tasks.
* Worked on **Kubernetes** by deploying configurations using **Yaml** files and orchestrating the container management. Created pods, clusters, nodes. Assigned master and worker nodes for extensive scaling of the modules.
* Worked on **Splunk** API for monitoring the health, resources, and logs of the infrastructure.
* Administrated and maintained confluence workspaces based on project and team permissions. Documented several tasks on **Confluence**.
* Transitioned Linux infrastructure support to cloud-based environment, leveraging expertise in system **administration, troubleshooting,** and **maintenance**.
* Deployed, configured, and managed cloud-based Linux servers, ensuring stability, security, and optimal performance.
* Implemented cloud-native tools and techniques for **performance monitoring, log analysis, and backup and recovery operations**.
* Applied security best practices and secured cloud-based Linux systems and networks, ensuring compliance with industry standards.

**Site Reliability Engineer June 2017 – September 2019**

**Servizon IT Services Pvt Ltd - Hyderabad, India**

* Involved in designing and deploying a multitude of applications utilizing almost all the **AWS** stack including **EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, LAMBDA, REDSHIFT**, **CLOUDWATCH,** **CloudTrail and** **CloudFront** focusing on high-availability, fault tolerance and auto-scaling in AWS cloud formation.
* Implemented **AWS** code pipeline and Created CloudFormation **JSON** templates for infrastructure as code.
* Experience with provisioning configuration management, and containerization solutions such as **Terraform, Packer, Chef, Puppet, Ansible, Docker, Mesos** or similar technologies.
* Wrote **Ansible Playbooks** with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on **AWS** **instances** using **Python**. Used the **Ansible** **Galaxy**, a shared repository for the roles to download, share and manage the roles. Automation and deployment templates for **relational** and non-relational databases including **MySQL** and **Cassandra** used in **AWS** **RDS**.
* Worked with **AWS** **CloudFormation** **Templates**, terraform along with **Ansible** to render templates and Murano with Orchestration templates in OpenStack.
* Used **IAM** to create new accounts, roles and groups and engaged in enabling **lambda** functions for dynamic creation of Roles.
* Created a **Python Script** to stop all the instances with a specific tag in **AWS** Instance using **Lambda functions** and made it into **CloudWatch** Scheduler to schedule it every night.
* Designed the project workflows/pipelines using **Jenkins** as CI tool and wrote **Python Scripts and BASH Script** to automate the build process.
* Created load balancers (**ELB**) and used **Route53** with failover and latency options for high availability and fault tolerance.
* Worked on AWS **CloudWatch, CloudFormation, CloudTrail and** **CloudFront** services to set up and manage cached content delivery.
* Maintained **Docker** **Registry** for local upload and download of **Docker** images and even from **DOCKERHUB**.
* Installed and configured **KUBERNETES**, **Chef Server/workstation, and nodes** via **CLI** tools and wrote **Docker** files to create new images based on working environments for testing purposes before deployment.
* Coordinate/assist developers with establishing and applying appropriate branching, labelling/naming conventions using Subversion (SVN) source control.
* Automated installation and configurations of various applications using **Ansible. Ansible-Tower** implementation and management.
* Built scripts using **ANT** and **MAVEN** build tools in **Jenkins** to move from one environment to environments.
* Created Automated pipelines in **AWS Code Pipeline** to deploy **Docker** containers in **AWS ECS** using services like **AWS** **CloudFormation**, **AWS Code Build**, **AWS Code Deploy, 53 and Puppet**.
* Technical knowledge of network hardware, protocols, and Internet standards, including **TCPIP, and DNS, DHCP, SSH, FTP, Terminal Services/Remote Desktop**.
* An experienced background in running both **Windows and Linux server applications**, programming aptitude (**HTML, MySQL, CSS, JS, PHP),** experienced with a formal software release process, and the ability to learn quickly.
* Automated build and deployment of Microservices using **Git** and **Jenkins**.
* Configuring **AWS IAM** and **Security Group** in Public and Private Subnets in **VPC**.
* Building the deployment process for application and building a continuous integration system for all our products using **Jenkins**.
* Extensive experience using **Maven** and **ANT** as a Build Tool for the building of deployable artifacts (JAR, WAR & EAR) from source code.
* Experience in architecting large applications and object-oriented programming related to **Python**.
* Worked on writing multiple **Python, Shell scripts** for internal applications for various organizational tasks.
* Responsible for maintaining the Subversion (SVN)/GIT Repositories, also access control strategies.
* General database experience, including aptitude writing SQL and administering Microsoft SQL Server and MySQL Ability to code in Perl and Shell script (and learn other languages quickly).
* Participated in weekly release meetings with Technology, stakeholders to identify and mitigate potential risks associated with the monthly releases. Developed build scripts using ANT as the build tool for the creation of (WAR files) build artifacts.
* Involved in troubleshooting the automation of Installing and configuring **JAVA** applications in the test and pre-production environments.
* Deploying scripts for build, maintenance, deployment, and related tasks using **Dockers, Jenkins, and Maven**.
* Involved in setting up **JIRA** as defect tracking system and configured various workflows, customizations, and plugins for the JIRA bug/issue tracker.

**Linux System Administrator August 2015 – May 2017**

**Bhavna Software India Pvt Ltd - Hyderabad, India**

* Experienced in managing and maintaining multiple Linux servers (**RHEL**) Versions 7,8 and 9, proficiency in performing installations, upgrades, patching, and setup of features such as **PV, PVG, and LVM**. Demonstrated ability to ensure stability, security, and optimal performance of the systems through regular maintenance and updates.
* Demonstrated expertise in resolving mount point issues by regularly monitoring file systems and using knowledge of common file systems like **ext4, xfs,** and **NTFS**.
* Implemented effective security measures through regular checks of file permissions and ownership, as well as utilizing security tools like **SELinux, AppArmor,** and **Firewalld**.
* Expertise in monitoring web servers and infrastructure resources using **Nagios** and other monitoring tools.
* Proficient in scripting for administrative and management tasks using various scripting languages such as **shell, bash, Python, Perl, Ruby, and C-shell**.
* Skilled in configuring and maintaining standard Linux services such as **Tomcat, Apache, MySQL, NFS, FTP, Postfix, LDAP, DHCP, DNS BIND, HTTP, HTTPS, SSH, iptables, and firewalls**.
* Created and maintained Continuous Build and Continuous Integration environments in **scrum** and **agile projects**.
* Experienced in writing **Gradle, Maven** and **ANT** scripts to perform continuous build and integration of **Java** applications using **Jenkins** with the use of necessary plugins and deploy using **uDeploy**.
* Configured **NEXUS** Artifactory repository to store artifacts and created build configuration files including **POM.xml**.
* Managed dependencies in **Maven** project by creating parent-child relationships between required projects and collaborate the deployment process with **Shell scripting**.
* Worked with **ANT** tool to do the builds and integrated with Bamboo for the builds as the continuous integration process.
* Involved in repository management in **ANT** to share snapshots and releases of internal projects using **Nexus** tool.
* Managed separate VMware clusters like QA, Development and Production.
* Extensively worked on VMware Update Manger for Host upgrades and patches.
* Involved in troubleshooting **Network, memory, CPU, swap** and **file system** issues, TCP/IP, NFS, DNS and SMTP in Linux Servers.
* Administered Configurations/Jobs/Kernel/Boot and Hardware for **Red Hat servers** in and Installing, Upgrading, Patching the **Red Hat servers** by using **YUM**.
* Managed System Administration tasks during high deliverables for Linux servers.
* Integrated **Selenium** test automation execution with **Jenkins** on different environment as part of CI Process.
* Installed, Upgraded, Patched the **Red Hat servers** by using **YUM**.
* Involved in setting up **JIRA** as defect tracking system and configured various workflows, customizations, and plugins.

**Technical Skills:**

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| Operating Systems: Red Hat, Windows, Ubuntu, CentOS, Debian |
| Virtualization Technologies: Oracle VirtualBox, Docker, VMware, Windows Hyper-V |
| Services: LDAP, DNS, BIND, HTTP, HTTPS, POP3, NFS, TLS/SSL, DHCP, Kerberos |
| Servers: WebLogic, Apache Tomcat, Nginx, WebSphere |
| Ticketing Tools: JIRA, ClearQuest |
| Databases: MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch |
| Cloud Technologies: AWS, MS Azure |
| Scripting Languages: Python, Bash, PowerShell, JavaScript, YAML, Ruby, Groovy |
| Programming Languages: Python, Java, Go |
| Source Control/ Versioning Tools: GIT, GitHub, Bitbucket, GitLab |
| Configuration Management: Ansible, Puppet, Chef, Saltstack, Docker |
| Infrastructure as Code: Terraform, AWS CloudFormation, Azure Resource Manager, Ansible |
| Orchestration Tools: Kubernetes, Docker, Docker Swarm, OpenShift, Nomad |
| CD/CI Orchestration: Jenkins, GitLab CI/CD, GitHub Actions, CircleCI, Azure DevOps |
| Monitoring Tools: Prometheus, Grafana, Cloud Watch, Nagios, Datadog, ELK, Splunk |
| Repository Management: Docker Hub, Nexus, Artifactory, Azure Artifacts |
| Build Tools: Maven, Gradle, npm, Ant, SonarQube |
| Bug Tracking Tools: JIRA, Azure DevOps, Code Climate |
| CI/CD Tools: Jenkins, GitLab CI/CD, Azure DevOps, TeamCity, GitHub Actions, Bamboo |
| DevSecOps Tools: SonarQube, Veracode, OWASP ZAP, Nessus, Qualys, HashiCorp Vault, Fortify |

**Education Details:**

Masters in computer science – Stevens Institute of Technology, New Jersey, USA.